	*			
FFFFFFFFFFFF	111	111	XXX	XXX
FFFFFFFFFFFF	111	111	XXX	XXX
FFFFFFFFFFFF	111	111	XXX	XXX
FFF	111111	111111	XXX	XXX
FFF	111111	111111	XXX	XXX
FFF	111111	111111	XXX	XXX
FFF	111	111	XXX	XXX
FFF	111	111	XXX	XXX
FFF	111	111	XXX	XXX
FFFFFFFF, FFF	- 111	111	XXX	
FFFFFFFFFF	111	111	XXX	
FFFFFFFFFF	111	111	XXX	
FFF	111	111	XXX	XXX
FFF	111	111	XXX	XXX
FFF	111	111	XXX	XXX
FFF	111	111	XXX	XXX
FFF	111	111	XXX	XXX
FFF	111	111	XXX	XXX
FFF	111111111	111111111	XXX	XXX
FFF	111111111	111111111	XXX	XXX
FFF	111111111	111111111	XXX	XXX

\_\$25

Symbolio Collino Colli

MAKE MAP MAP

MAP MARI MARI MARI MARI MARI

RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR	QQQQQQ QQ QQ QQ QQ QQ QQ QQ QQ QQ QQ QQ		
	\$		

\*\*FILE\*\*ID\*\*REQUEU

....

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REQUEU - REQUEUE REQUEST TO DRIVER

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FACILITY: F11ACP STRUCTURE LEVEL 1

H 10

ABSTRACT:

THIS ROUTINE REQUEUES THE INDICATED I/O PACKET TO THE DEVICE DRIVER FOR WHICH IT WAS ORIGINALLY INTENDED.

**ENVIRONMENT:** 

STARLET OPERATING SYSTEM, INCLUDING PRIVILEGED SYSTEM SERVICES AND INTERNAL EXEC ROUTINES. THIS ROUTINE MUST BE CALLED IN KERNEL MODE.

AUTHOR: ANDREW C. GOLDSTEIN 14-MAR-78 10:43

MODIFIED BY:

12-APR-1984 V03-003 R0W0348 Ralph O. Weber Change maximum byte count, UCB\$L\_MAXBCNT, tests to be unsigned. This should have been done in ROW0218, when SYSACPFDT and IOCIOPOST were fixed, but what can I say, "Nobody's perfect."

V03-002 ACG0408 Andrew C. Goldstein, 23-Mar-1984 11:01 Make all of global storage based

RW

0000

FE00

1C A3

32 A3 000001FF A3 01FF

32 A3

32 A3

50 08 AC

50

50

32 A3 32

8F

REQUEU VO4-000

```
FUNCTIONAL DESCRIPTION:
                                        THIS ROUTINE REQUEUES THE INDICATED I/O PACKET TO THE DEVICE DRIVER FOR WHICH IT WAS ORIGINALLY INTENDED. IT TRANSLATES THE LBN INTO THE CORRESPONDING PHYSICAL BLOCK NUMBER AND CONVERTS THE I/O FUNCTION CODE INTO THE APPROPRIATE PHYSICAL FUNCTION.
                     THE NUMBER OF UNMAPPED BLOCKS IS DEDUCTED FROM THE BYTE COUNT.
                               CALLING SEQUENCE:
                                         CALL REQUEUE_REQ (ARG1, ARG2, ARG3)
                               INPUT PARAMETERS:
                                         ARG1: ADDRESS OF I/O PACKET ARG2: STARTING LBN OF TRANSFER
                                         ARG3: NUMBER OF BLOCKS UNMAPPED
                               IMPLICIT INPUTS:
                                         CURRENT_UCB: ADDRESS OF REQUEST UCB
                               OUTPUT PARAMETERS:
                                         NONE
                               IMPLICIT OUTPUTS:
                                         NONE
                      101
                     102
                               ROUTINE VALUE:
                                         NONE
                     104
                               SIDE EFFECTS:
                     106
                                         REQUEST QUEUED TO UCB
                     108
   00000000
                     110
                                         .PSECT $CODE$, NOWRT, LONG
         0000
0000
0000
                           REQUEUE_REQ::
003C
000
000
78
13
CCO
AA
000
12
3C
                                                     ^M<R2,R3,R4,R5>
PACKET(AP),R3
                                         . WORD
                                                                                               SAVE REGISTERS
GET PACKET ADDRESS
         0002
0006
0008
00014
00016
00028
00028
00038
00038
00038
00038
                     114
                                         MOVL
                                                     WACURRENT UCB(R10),R5
R5, IRP$L UCB(R3)
#9, UNMAPPED(AP),R0
                                                                                                GET UCB ADDRESS
                                         MOVL
                                         MOVL
                                                                                                STORE POSSIBLY CHANGED UCB ADDRESS
                                                                                               GET BYTE COUNT OF UNMAPPED BLOCKS
BRANCH IF ALL MAPPED - NO FIXUP
AND SUBTRACT FROM TRANSFER COUNT
                                         ASHL
                                         BEQL
                                                      10$
                                                     RO, IRP$L BCNT(R3)
#511, IRP$L BCNT(R3)
#511, IRP$L BCNT(R3)
                                         SUBL
                                                                                                ROUND BYTE COUNT TO NEXT BLOCK BOUNDARY
IN CASE FULL BYTE COUNT CONTAINS A PARTIAL
                     120
121
122
123
124
126
127
128
129
130
                                         ADDL
                                         BICW
                                                                                               RO = 0 or Max. permissible BCNT.
NEQ implies Max. permissible BCNT in RO.
If 0, use default Max. permissible.
                                                      UCB$L_MAXBENT(R5),RO
                            105:
                                         MOVL
                                                      20$
#512*127,R0
                                         BNEQ
                                         MOVZWL
                            20$:
   D1
1E
D0
                                                      RO IRP$L_BCNT(R3)
                                                                                                See if BCNT too large.
                                         BGEQU
                                                                                                GEQU implies we are OK
                                                      RO, IRP$L_BCNT(R3)
                                                                                                Else scale down to maximum allowed.
                                         MOVL
                            305:
   D0
16
                                         MOVL
                                                      LBN(AP),RO
                                                                                                GET STARTING LBN
                                                      a#IOC$CVTLOGPHY
                                                                                             CONVERT TO PHYSICAL BLOCK
                                         JSB
```

K 10 - REQUEUE REQUEST TO DRIVER 15-SEP-1984 23:44:44 VAX/VMS Macro V04-00 F11x.SRCJREQUEU.MAR;1 REQUEU VO4-000 00000000°9F @#EXESINSIOQ ; AND QUEUE TO DRIVER JSB .END

The working set limit was 1200 pages.
41385 bytes (81 pages) of virtual memory were used to buffer the intermediate code.
There were 50 pages of symbol table space allocated to hold 875 non-local and 3 local symbols.
238 source lines were read in Pass 1, producing 13 object records in Pass 2.
12 pages of virtual memory were used to define 11 macros.

- REQUEUE REQUEST TO DRIVER

15-SEP-1984 23:44:44 VAX/VMS Macro V04-00 5-SEP-1984 01:14:50 [F11x.SRC]REQUEU.MAR;1

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Macro library statistics !

M 10

Macro library name

Macros defined

\$255\$DUA28:[SYS.OBJ]LIB.MLB:1 \$255\$DUA28:[SYSLIB]STARLET.MLB:2 TOTALS (all libraries)

REQUEU VAX-11 Macro Run Statistics

246

920 GETS were required to define 6 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:REQUEU/OBJ=OBJ\$:REQUEU MSRC\$:FCPPRE/UPDATE=(ENH\$:FCPPRE)+MSRC\$:REQUEU/UPDATE=(ENH\$:REQUEU)+EXECML\$/LIB

0172 AH-BT13A-SE

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